

TUROK, I.P.

Device for the mechanical loading of linen into a piece good  
dyeing beck. Obm.tekh.opyt. [MLP] no.36:40-42 '56. (MIRA 11:11)  
(Dyes and dyeing--Apparatus)

An improvement of the standard for casein. V. Tata-  
 tinov, M. Eufok and E. Panova. *Molokho-Maslo*,  
*Maya Prom.* 1939, No. 1, 21; *Khim. Referat. Zhur.* 1939,  
 No. 7, 118. Acid casein should be prep'd. only by the re-  
 action of fresh residue of the mineral or org. acid; mech.  
 admixts. in casein and contamination with microorgan-  
 isms should be det'd. For the det'n. of the contamination  
 with microorganisms add 100 cc. of sterilized water at 80°  
 to 10 g. of casein in a sterilized flask, keep the temp. at  
 30° for 7 hrs., add 5 cc. of a 1:100 sol'n. of sterilized methyl-  
 ene light-blue and observe the change of color after 10  
 min. With a Nessler's no. of 10, 10 or 50 the ext. of casein  
 remains light blue, at 70 it becomes green, and it becomes  
 colorless at higher values of Nessler's no. For 1st-grade

total Nessler's no. of casein should not be above 30, for  
 the 2nd-grade 50 and for the 3rd-grade 70. W. R. Houn

83416

S/191/60/000/006/008/015  
B004/B054

15.8300

AUTHORS:

Perlin, S. M., Turok, M. M., Grinblat, V. N.

TITLE:

Processing of Polyvinyl Chloride Into Pressure-casting Products

PERIODICAL: Plasticheskiye massy, 1960, No. 6, pp. 26 - 30

TEXT: The authors discuss Western papers on the casting of polyvinyl chloride (PVC) and indicate the difficulties: low thermostability, low heat conductivity, position of the softening point near the decomposition temperature. Fig. 1 shows the diagram of a heating cylinder according to data by G. Wick, H. König (Ref. 1). The authors then report on their experiments carried out at the laboratoriya plastmass i reziny VNII burovoy tekhniki (Laboratory of Plastics and Rubber of the All-Union Scientific Research Institute of Drilling Techniques). Parts of turbine drills and other components used in the drilling technique were cast (Fig. 2). For this purpose, two heating cylinders (No.1 - Fig. 3, No.2 - Fig. 4) were constructed, the data of which are given in Table 1. The heating cylinders were used in a Ziegler casting machine of the

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Processing of Polyvinyl Chloride Into  
Pressure-casting Products

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type *ММ-7сб* (LM-7sb). The following differences between the two cylinders are indicated: cylinder No.1: volume 80 cm<sup>3</sup>, smallest clearance between cylinder wall and torpedo 4 mm, maximum pressure on the plunger 2000 kg/cm<sup>2</sup>; cylinder No.2: volume 120 cm<sup>3</sup>, clearance 6 mm, maximum pressure 1350 kg/cm<sup>2</sup>. The substances cast were emulsion-PVC of the type *ПФ-4* (PF-4), and the composition of the type *УПМ-2* (UPI-2) (Table 2). Lead silicate was used as stabilizer. By means of cylinder No.2 it was only possible to cast a PVC plasticized by 10% of dibutyl phthalate at a cylinder temperature of 170°C. Table 3 compares the mechanical characteristics of these castings with such of vinylplast of the type *ТУ 3823-53* (TU 3823-53). By means of cylinder No.1 it was possible to cast non-plasticized PVC at temperatures of 160-165°C. The smaller clearance effected higher friction and, thus, an additional temperature increase in the mass itself. For better plastification, a metal mesh was introduced in the nozzle. Better results, however, were attained with a valve shown in Fig. 5. The authors mention papers by E. I. Barg (Ref. 4) and V. A. Kargin, T. A. Sogolova (Ref. 5). There are 5 figures, 3 tables, and 7 references: 2 Soviet, 3 US, 1 British, and 1 German.

Card 2/2

TUROK, V.I.

USSR/Human and Animal Physiology - Respiration.

T-7

Abs Jour : Ref Zhur - Biol., No 10, 1953, 46125

Author : Turok, V.I.

Inst : Moscow Academy of Agriculture imeni K.A. Timiryazev.

Title : Gaseous Interchange in the Lungs of Carpatian Mountain  
Tsakels and Their Hybrids with Tsigay Rams.

Orig Pub : Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1957,  
vyp. 27, 257-264.

Abstract : No abstract.

Card 1/1

66

TUROK, V. I. Cand Biol Sci -- (diss) " Biological characteristics and economic  
~~indicators~~  
~~indexes~~ of Carpatian-Mountain "tsakeley" /~~1~~ and their hybrids of tsygayskiye  
sheep." Mos, 1957. 21 pp 20 cm. (Mos Order of Lenin Agr Acad im K.A. Timiryazev),

110 copies

(KL 7-57, 105)

25

TUROK, V.I., aspirant.

Pulmonary gas exchange in local Carpathian sheep and their crosses  
with TSigayskiy rams. Dokl. TSKhA no.27:257-264 '57. (MIRA 11:4)  
(Respiration) (Sheep)

MIKHAYLOV, M.I., otv. red.; TUROK-POPOV, V.M., red.; VINOGRADOV,  
V.N., red.; ROGINSKAYA, A.Ye., red.; VOLKOVA, V.V.,

[The labor movement in modern times] Rabochee dvizhenie v  
novoe vremia; sbornik statei. Moskva, Izd-vo "Nauka,"  
1964. 542 p. (MIRA 17:3)

1. Akademiya nauk SSSR. Institut istorii.



DOBROSKOK, I.I.; SURIN, Ye.V.; BROVMAN, M.Ya.; MIKHAYLOV, G.M.;  
KRULEVETSKIY, S.A. Prinimali uchastiye: ASFANDIYAROV, R.F.;  
BELOV, Ye.M.; IVANOV, V.I.; MARKOV, V.I.; SOLOV'YEV, Yu.P.;  
PIMENOV, F.A.; TUROMSHEV, A.F.; KHVES'KO, V.A.; NIKITSKIY, N.V.

Investigating the power parameters of a continuous steel casting  
plant. Stal' 22 no.3:223-225 Mr '62. (MIRA 15:3)

1. Yuzhnoural'skiy mashinostroitel'nyy zavod (for Asfandiyarov, Belov,  
Ivanov, Markov, Solov'yev). 2. Novolipetskiy metallurgicheskiy zavod  
(for Pimenov, Turomshev, Khves'ko). 3. Tsentral'nyy nauchno-issledovatel'-  
skiy institut chernoy metallurgii (for Nikitskiy).  
(Continuous casting—Equipment and supplies)

TUROMSHINA, U. F.

USSR/Chemistry - Production of Aluminum

Feb 51

"Effect of the Geometric Parameters of an Electrolytic Cell on the Distribution of Electric Energy in It," V. M. Mashovets, M. V. Pototskaya, N. L. Komarov, U. F. Turomshina, All-Union Aluminum-Magnesium Inst

"Zhur Prik Khim" Vol XXIV, No 2, pp 154-166

Studied structure of elec fld in flat model of Al bath with Cu electrodes and electrolyte of 150 g/l  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ , 49 g/l  $\text{H}_2\text{SO}_4$ , and 50 g/l alc. Clarified effect of distance from anode to side walls, depth of electrolyte, and interelectrode distance for cells with working and insulated side walls. Proposed more satisfactory formula for "reduced" cross section of electrolyte.

TUROMSHINA, U.F.

GTRSP Vol. 5-No. 1

Jan. 1952

2107 12

Mashovets, V.P., Pototskaya, N.V., Komarov, N.L.  
of Aluminum-Magnesium alloy. The effect of geometric parameters of  
the distribution of electrical energy in the chamber on

Akade

74, No. 1951

Electrolysis of ~~tung~~ sulfate in acid solutions. U. P. Turro-  
Kishina and V. V. Stender. J. Appl. Chem. U.S.S.R. 27,  
1954 (Engl. translation).—See C.A. 49, 5162k.  
R.M.R.

TUROMSHINA, U.F.; STENDER, V.V.

Electrolysis of acidic solutions of zinc sulfate. Zhur.prikl.  
khim. 27 no.10:1082-1089 0 '54. (MLBA 7:11)

1. Kafedra obshchey khimii Kemerovskogo gornogo instituta i  
Institut khimicheskikh nauk Akademii nauk KazSSR.  
(Electrolysis) (Zinc sulfate)

AID P - 2261

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 6/19

Authors : Turomshina, U. F. and V. V. Stender

Title : ~~Current efficiency and cathodic potentials in the~~  
electrolysis of zinc sulfate solutions in the presence  
of ions of metals more electronegative than zinc.  
Part II.

Periodical: Zhur. prikl. khim., 28, no.2, 166-174, 1955

Abstract : Addition of sodium, calcium, magnesium, and manga-  
nese ions resulted in decreasing the current  
efficiency (determined by evolution of hydrogen).  
Nine diagrams, 22 references (21 Russian: 1933-54)

Institution: Institute of Chemical Sciences of the Academy of Sciences  
of the Kazakhskaya SSR

Submitted : J1 18, 1953



Zhur. prikl. khim. 28, 4, 372-387, 1955

AID P - 2776

Card 2/2 Pub. 152 - 4/19

Institution : Institute of Chemical Sciences of the Academy of  
Sciences of the Kazakh SSR.

Submitted : F 23, 1954



TUROMSHINA, U. F.

CH Electrolysis of zinc sulfate in acid solutions. IV. The combined effect of mixts. of additives during the electrolysis of ZnSO<sub>4</sub> solns. U. F. Turomshina and V. V. Stender. J. Appl. Chem. U.S.S.R. 48, 447-52 (1955) (Engl. translation). See C.A. 49, 15566c. B. M. R.

Turomshina, U. F.

AID P - 3418

Subject : USSR/Chemistry

Card 1/2 Pub. 152 - 3/18

Authors : Turomshina, U. F. and V. V. Stender

Title : The combined effect of additives during the electrolysis of zinc sulfate solutions

Periodical : Zhur. prikl. khim., 28, 5, 467-474, 1955

Abstract : Various additives were added to the standard electrolyte containing 60 g Zn and 100 g H<sub>2</sub>SO<sub>4</sub> per liter. The effect of a single additive and the combined effect of two additives on the current efficiency of hydrogen were studied and the data compiled in tables. The sum of the added effects of two additives may be higher or lower than the combined effect of the mixture. The positive difference was compared with promoter action, and the negative difference with catalytic poisoning. Three tables, 9 references, all Russian (1945-1955).

AID P - 3418

Zhur. prikl. khim., 28, 5, 467-474, 1955

Card 2/2      Pub. 152 - 3/18

Institution : Institute of Chemical Sciences of the Academy of  
Sciences, Kazakh SSR.

Submitted : F 26, 1954

ZABOTIN, P.I.; KIR'YAKOV, G.Z.; TUROMSHINA, U.F.

Yield of chromium in relation to the current and pH of the  
electrolyte. Izv.AN Kazakh.SSR.Ser.khim. no.2:9-13 '59.  
(MIRA 12:8)

(Chromium)

TURON, Slavomir, inz.; PEJCOCH, Osvald, doc., inz., CSc.

Possibility of rail tire rolling without flashes. Hut listy  
18 no.9:638-645 S'63.

1. Vitkovicke zelezarny Klementa Gottwalda (for Turon). 2.  
Vysoka skola banska, Ostrava (for Pejcoch).

TURONEK, Jerzy

Problems of the chemical market on the international forum.  
Chemik 17 no.11:409-410 N '64.

L 38589-66 EWP(t)/ETI/EWP(k) IJP(c) JD/HW

ACC NR: AP6027700

SOURCE CODE: CZ/0034/66/000/001/0016/0023

AUTHOR: Burda, Svatopluk (Engineer); Elfmark, Jiri (Engineer; Candidate of sciences);  
Turon, Slavomir (Engineer)

ORG: Klement Gottwald Vitkovice Iron Works, Ostrava (Vitkovické zelezarny KG)

TITLE: Optimum forged rings manufacturing technique

SOURCE: Hutnické listy, no. 1, 1966, 16-23

TOPIC TAGS: metal forging, metallurgic industry

ABSTRACT: The manufacture of rings by the mandrel forging technique is discussed. The optimum forging reduction degree is a product of partial reduction degrees resulting from the stages of: forging of the billet, forging of the disk, and the mandrel forging process. An equation for the optimum diameter of the original billet is derived. It states that this diameter equals the cube root of the product of a coefficient and of the weight of the forging billet divided by the product of the wall thickness of the ring and its height. Methods for calculation of the constant are given. Orig. art. has: 3 figures, 24 formulas and 6 tables. [Based on author's

Eng. abst. / JPRS: 34,519

SUB CODE: 13, 05 / SUBM DATE: none / ORIG REF: 006 / SOV REF: .001

Card 1/1 KV

UDC: 621.73.032

TURNER, Jerzy

A new stage of Soviet chemistry. Chemik 17 no.1:9-11 Ja'64.



TURONEK, Jerzy, mgr

Dyes on the international market. Chemik 16 no.9:279-280  
S '63.

TURONEK, Jerzy, mgr

Conjunctur or depression. Chemik 15 no.12:435-437 D '62.

TURONEK, Jerzy, mgr

For more activization of the export reserves. Chemik 15 no.4:  
117-120 Ap '62.

1. Polska Izba Handlu Zagranicznego, Warszawa.

MUURISEPP, Aleksol; TURONOK, G., red.

[25th anniversary of Soviet Estonia] 25- letie Sovetskoi  
Estonii. Tallinn, Eesti Raamat, 1965. 176 p.  
(MIRA 18:8)

1. Predsedatel' Prezidiuma Verkhovnogo Soveta Estonskoy  
SSR (for Muurisepp).

MOROZOVA, M.G., dotsent; DUSHKINA, M.M., assistant; MAKSIMOVA, T.K.,  
assistant; TURONOK, L.F., assistant; YAKOVENKO, Z.L., assistant

Viacheslav Vasil'evich Aliakritskii (1885-1960); obituary. Arkh.  
pat. 22 no.5:92-93 '60. (MIRA 13:9)  
(ALIAKRITSKII, VIACHESLAV VASIL'EVICH, 1885-1960)

MOROZOVA, M.G.;TROFIMOV, K.A.;MAKSIMOVA, T.K.;TURONOK, L.F.;ABAKUMOVA, A.I.;  
GLADKIKH, V.G.;YAKOVENKO, Z.L.;KUZNETSOVA, V.I.;DUSHKINA, M.M.;LEYBIN,  
L.S.;DEKHTYAR', S.M.

Viacheslav Vasil'evich Aliakritskii. Arkh. pat., Moskva 15 no.2:  
95-96 Mar-Apr 1953. (CIML 24:3)

1. Professor Vyacheslav Vasil'yevich Alyakritskiy is a Doctor Medical  
Sciences and Head of the Department of Pathological Anatomy at Voronezh  
Medical Institute.

MOROZOVA, M.G. ; TROFIMOV, K.A.; MAKSIMOVA, T.K.; TURONOK, L.F.; ABAKUMOVA, A.I.; GLADKIKH, V.G.; YAKOVENKO, Z.L.; KUZNETSOVA, V.I.; DUSHKINA, M.M.; LEYBIN, L.S., polkovnik meditsinskoy sluzhby; DEKHTYAR', S.M., mayor meditsinskoy sluzhby.

Viacheslav Vasil'evich Aliakritskii. Arkh.pat. 15 no.2:95-96 Mr-Ap '53.  
(MLRA 6:5)

1. Kafedra patologicheskoy anatomii. 2. Gorodskaya prozektura. 3. PAL.  
(Aliakritskii, Viacheslav Vasil'evich, 1885-)

GOLODNOVA, O.S., inzh.; DEGIL', G.S., inzh.; PANCHENKO, A.U., inzh.;  
TUROS, A.E., inzh.; MESHKOV, V.K., inzh.

Concerning the seals of hydrogen cooled turbogenerators. Elek.  
sta. 33 no.8:60-68 Ag '62. (MIRA 15:8)

1. Rostovenergo (for Golodnova). 2. Glavnoye upravleniye  
energeticheskogo khozyaystva Donetskogo basseyna (for Degil',  
Panchenko, Turos). 3. Moskovskoye rayonnoye upravleniye  
energeticheskogo khozyaystva Glavtsentroenergo Ministerstva  
elektrostantsiy SSSR (for Meshkov).  
(Turbogenerators)



DEGIL', G.S., inzh.; PANCHENKO, A.U., inzh.; TUROS, A.E., inzh.;  
SAPEL'NIKOV, K.N., inzh.; AVRUKH, V.Yu., inzh.; VOINOV, A.G., inzh.

Seals of water-cooled turbogenerators. Elek. sta. 34 no.5:72-  
79 My '63. (MIRA 16:7)

1. Glavnoye upravleniye energeticheskogo khozyaystva Donetskogo  
basseyna (for Degil', Panchenko, Turus). 2. Uralenergo (for  
Sapel'nikov).  
(Turbogenerators)

HUNGARY

MANDI, Andras, Dr, TIMAR, Miklos, Dr, TURCS, Eva, Dr; National Labor Hygiene Institute (Orszagos Munkeegeszsegugyi Intezet).

"Testing of the Mechanics of Respiration in Cases of Silicosis."

Budapest, Orvosi Hetilap, Vol 104, No 45, 10 Nov 63, pages 2126-2129.

Abstract: [Authors' Hungarian summary] Results of respiration mechanical and spirometric testing on 110 cases are reported. Of the patients tested, 75 suffered from silicosis in its various radiological stages, where the silicosis was complicated by bronchitis, the compliance values showed a definite decrease. A definite compliance decrease was also found in about half of the silicosis cases, where the disease was more severe than the P<sub>3</sub> radiological stage, but clinical bronchitis was absent. The possible causes, the indications for the test and the evaluation of the results are also discussed. 2 Hungarian, 5 Western references.

1/1

MANDI, Andras, dr.; TIMAR, Miklos, dr.; TUROS, Eva, dr.

Respiratory function tests in silicosis. Orv. hetil. 104 no.45:  
2126-2129 10 N '63.

1. Orszagos Munkaegeszsegugyi Intezet.  
(SILICOSIS) (RESPIRATORY FUNCTION TESTS)  
(BRONCHITIS) (PULMONARY EMPHYSEMA)  
(BRONCHOSPIROMETRY)

TIMAR, Miklos, dr.; MANDI, Andras, dr.; TUROS, Eva, dr.

Dust exposition and bronchitis. Munkavedelem 8 no.7/9:36-39 '62.

1. Orszagos Munkaegeszsegugyi Intezet. 2. "Munkavedelem"  
felelos szerkesztoje a munkaegeszsegugyi cikkekert (for Timar).

TUROV, A.

Improving quality control. Sov.torg. 35 no.7:24-26 J1 '62.  
(MIRA 15:11)

1. Nachal'nik Permskogo oblastnogo upravleniya Glavnogo upravleniya  
gosudarstvenndy trgovoy inspeksii Ministerstva trgovli RSFSR.  
(Retail trade--Quality control)

SUDZILOVSKIY, G.A., dotsent, kand.filolog.nauk, podpolkovnik zapasa;  
BOGDANOVA, K.N.; BURYAKOV, Yu.F.; VORONIN, V.P.; SERGEYEV, O.N.;  
TUROV, A.A.; BORISOV, V.V., red.; MARCHENKO, V.G., red.;  
SAVIN, B.V., red.-leksikograf; YEFREMOVA, M.K., red.-leksikograf;  
KUZ'MIN, I.F., tekhn.red.

[English-Russian military dictionary] Anglo-russkii voennyi  
slovar'. Sost. Sudzilovskii, G.A., i dr..Pod obshchei red.  
Sudzilovskogo, G.A. Okolo 50000 terminov. Moskva, Voen.izd-vo  
M-va obor.SSSR, 1960. 965 p. (MIRA 13:10)  
(English language--Dictionaries--Russian)  
(Military art and science--Dictionaries)

BORISOV, V.V.; DUBYANSKIY, M.A.; STOLBOV, V.S.; TUROV, A.A.; SHUTKIN, L.N.; YEGOROV, M.P., red.; KUROCHKIN, V.D., red.; BERDNIKOVA, N.D., red.-leksikograf; SAVIN, B.V., red.-leksikograf; KRUPENNIKOVA, I.A., red.-leksikograf; DANILOVA, Z.S., red.-leksikograf; BUKOVSKAYA, N.A., tekhn. red.

[Dictionary of foreign military abbreviations] Slovar' inostrannykh voennykh sokrashchenii. Pod red. M.P.Egorova. Moskva, Voen. izd-vo M-va oborony SSSR, 1961. 891 p. (MIRA 15:2)  
(Abbreviations) (Military art and science--Dictionaries)

BURYAKOV, Yu.F.; DREMICHEV, I.D.; DUBOSHIN, V.N.; LOPATIN, R.N.;  
MAKSIMOV, M.I.; TUROV, A.A.; VASIL'YEV, A.A., red.;  
NIKOLAYEV, N.I., red.; KURCHIKIN, V.D., red.; BALASHOVA,  
M.V., red.-leksikograf; KUZ'MIN, I.F., tekhn. red.

[Anglo-Russian aeronautical dictionary] Anglo-russkii avi-  
atsionnyi slovar'. Moskva, Voen.izd-vo MOva obor. SSSR,  
1963. 544 p. (MIRA 16:8)  
(English language--Dictionaries--Russian)  
(Aeronautics--Dictionaries)



TUROV, A. F., MAPALKOV, A. V. and ONTSOVA, A. V.

"Principles of Processing of Information in the Internal System of the Organism - external environment."

report to be submitted for the Third Intl. Congress on Cybernetics, Namur, Belgium, 11-15 Sep 1961

MAPALKOV, A. V. - Chr. Higher Nervous Activity, Moscow State Univ.

NAPALKOV, A.V., kand.biologicheskikh nauk; TUROV, A.F., kand.biologicheskikh nauk

Pattern in the formation of the complex behavior of animals.  
Biol. v shkole no.5:72-77 S-0 '61. (MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.  
(Animals, Habits and behavior of)

RABINOVICH, Ye.Z., kandidat meditsinskikh nauk; TUROV, A.I.

Uterine chondroma. Akush.i gin. no.1:70 Ja-F '54. (MLBA 7:6)

1. Iz ginekologicheskogo otdeleniya (zaveduyushchiy Ye.Z.Rabinovich,  
konsul'tant - professor G.K.Cherepakhin) 12-y bol'nitsy g. Gor'kogo.  
(Uterus--Tumors)

34890

S/031/62/000/003/070/090  
B149/B101

11.0132  
AUTHORS:

Tarashchenko, Ye. R., Tararyshkin, M. Ye., Turov, A. I.,  
Zrellov, V. A., Baranov, B. N.

TITLE:

Thermal stability and corrosive activity of sulfur-containing  
fuels at elevated temperatures

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 3, 1962, 489, abstract  
3M193 (Sb. "Khimiya svergaorg. soyedineniy, soderzhashchikhsya  
v neftyakh i nefteproduktakh. v. 4"., M., Gostoptekhnizdat,  
1961, 231 - 235)

TEXT: The following fuels were investigated: standard T-1 (TS-1), TS-1  
purified by hydrotreating, TS-1 with high mercaptan content, and a T-2 (T-2)  
type fuel from a wide fraction containing components of thermal cracking. ✓  
The thermal stability and corrosive activity of the sulfur-containing fuels  
were studied under static conditions in a bomb; and also when the fuel was pumped  
through a filter and through an actual fuel system of a motor. It was  
shown that of the fuels investigated, T-2 containing cracking components  
and TS-1 with a high mercaptan content had the lowest thermal stability at  
Card (1/2)

Thermal stability and ...

S/081/62/000/003/070/090  
B149/B101

120°C. Pumping of these fuels at the temperature mentioned results in rapid clogging of the filter and is accompanied by the formation of a deposit on the fuel-utilizing components of the unit. TS-1 with a high content of mercaptans (0.032%) had the highest corrosive activity; T-2 had low corrosive activity. TS-1 purified by hydrotreating had the best thermal stability and insignificant corrosive activity. It was shown that hydrotreating during the production of fuels of the TS-1 type resulted in considerably higher thermal stability and in lowered corrosive activity of fuels obtained from Eastern petroleum. [Abstracter's note: Complete translation.] X

Card 2/2

TUROV, A.Sh.; MARINTSEVA, A.V.; NIKOLAYCHUK, A.V.

Means for intensifying the deciling process. Neftoper. i neftekhim.  
no.6:6-12 '65. (MIRA 18:7)

1. Bashneftekhimzavody.

TUROV, A.Sh.; NIKOLAYCHUK, A.V.

Results of redesigning an oil-extracting device. Neftoper. 1  
neftakhim. no.5:3-9 '63. (MIRA 17:8)

1. Novc-Ufimskiy neftepererabatyvayushchiy zavod.

TUROV, A.Yo., zaboyshchik.

Shortcomings in operations of the "Third International" mine.  
Gor.zhur. no.6:80 Je '57. (MIRA 10:6)

1.Shakhta Kapital'naya.  
(Mine management)



L 64482-65 EWI(m)/EFF(c)/EWF(j)/T/EWF(t)/EWF(b) IJP(c) JD/HW/RM  
 UR/0020/65/163/005/1147/1150  
 ACCESSION NR: AP5021280

AUTHORS: Vinogradov, P. A.; Dolgoplosk, B. A. (Academician); Zgonnik, V. N.;  
 Parenago, O. P.; Tityakova, Ye. I.; Turov, B. S.

TITLE: The role of electron-donor additives, water, and alkylating agents in the stereospecific polymerization of butadiene under the influence of a cobalt catalytic system

SOURCE: AN SSSR. Doklady, v. 163, no. 5, 1965, 1147-1150

TOPIC INDEX: stereospecific polymerization, polymer, butadiene, cobalt, catalyst

ABSTRACT: The object of the investigation was to enlarge the currently available information concerning the stereospecific catalytic activity of cobalt catalytic systems (B. S. Turov and F. A. Vinogradov 1 dr., DAN, 155, 874, 1965). The polymer studied was butadiene. The experimental results are shown graphically in Figs. 1 and 2 on the Enclosure. It is concluded that the addition of  $AlCl_3$ ,

$RAI_2$ ,  $Br_2$ ,  $H_2O$ ,  $CH_2 = CH - CH_2$  halogen,  $RCl - Al - O - Al - RCl$  increases the formation of 1,4 cis rings, the molecular weight, and the rate of polymerization, whereas the addition of  $R_3Al$ ,  $RSR$ ,  $ROR$ ,  $R_3N$ ,  $KCl$ , and  $NaCl$  decreases the number

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L 64482-65

ACCESSION NR: AP5021280

of 1,2 rings, the molecular weight, and the rate of polymerization. Orig. art.  
has: 1 table, 3 graphs, and 3 equations.

ASSOCIATION: Institut neftekhmicheskogo sinteza, Akademii nauk SSSR (Institute  
for Petrochemical Synthesis, Academy of Sciences SSSR)

SUBMITTED: 15Mar65

ENCL: 02

SUB CODE: 00

NO REF SOV: 007

OTHER: 005

Cord 2/4

L 15461-63

RM/WW

ACCESSION NR: AP3005443

EPR/EWP(j)/EPF(c)/EWT(m)/BDS

AFFTC/ASD

Pg-4/Pc-4/Pr-4

S/0020/63/151/005/1118/1119

AUTHORS: Turov, B. S.; Vinogradov, P. A.; Dolgoplosk, B. A. (Corr. 73)  
Member AS, SSSR; Rostina, S. I.

TITLE: Influence of electron donor additives on the chain structure in stereospecific polymerization of butadiene

SOURCE: AN SSSR. Doklady, v. 151, no. 5, 1963, 1118-1119

TOPIC TAGS: electron donor, butadiene polymerization, stereospecific polymerization, cis-polybutadiene, trans-polybutadiene

ABSTRACT: The effect of thio-ethers and tertiary amines (dibutyl sulfide and triethylamine) on butadiene polymerization was studied as a continuation of earlier study by the authors (DAN, 146, 1141 (1962)) of the effect of straight ethers. These compounds had less effect on polymerization rate than the straight ethers. They did effect an increase in the amount of 1,4-trans isomer by decreasing the 1,4-cis-polybutadiene. There was no lowering of solubility or unsaturation in the polymer formed. Experiment shows the cis-polybutadiene does not

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L 15461-63

ACCESSION NR: AP3005443

2

undergo changes in presence of donor additives and components of the catalyst system  $TiI_3 + (iso-C_4H_9)_3Al$ . Trans-members are formed only in the polymerization process by the direct participation of complexes containing the electron-donor additives. Orig. art. has: 1 figure.

ASSOCIATION: Yaroslavskiy zavod sinteticheskogo kauchuka  
(Yaroslav synthetic rubber plant)

SUBMITTED: 07May63

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: MA, CH

NO REF SOV: 003

OTHER: 003

Card 2/2

VINOGRADOV, V.A.; BOLOBOLOSK, B.A., akademik; SCONNIK, V.N.; PARENAGO, O.P.;  
TINZAKOVA, Ye.I.; TUROV, R.S.

Role of electron-donor additions, water, and alkylating agents in  
the stereospecific polymerization of butadiene under the effect of  
a cobalt catalytic system, Dokl. Ak. SSSR 163 no.5:1147-1150 Ag '65.

1. Institut neftekhimicheskogo sinteza AN SSSR.

S/0020/64/155/004/0874/0875

ACCESSION NR: AP4030787

AUTHOR: Turov, B. S.; Vinogradov, P. A.; Dolgoplosk, B. A. (Corresponding member); Kostina, S. I.; Kastorskiy, L. P.

TITLE: Effect of electron donor additives on the microstructure of the chain by stereospecific polymerization of butadiene in the presence of "cobaltic" catalytic systems.

SOURCE: AN SSSR. Doklady\*, v. 155, no. 4, 1964, 874-875

TOPIC TAGS: butadiene, polymerization, polybutadiene, electron donor additive, chain microstructure, cobaltic catalyst system, stereospecific polymerization, dialkylsulfide, simple ether, tertiary amine, cobalt chloride ethanol complex, diisobutylaluminum chloride, polymerization rate, molecular weight

ABSTRACT: The effect of dialkylsulfides, simple ethers and tertiary amines on the microstructure of the chain formed by polymerizing butadiene in a catalytic system consisting of the  $\text{CoCl}_2\text{-C}_2\text{H}_5\text{OH}$  complex and diisobutylaluminum chloride dissolved in a hydrocarbon was investigated. Experiments were run in benzene at 30C using 0.01 wt.% (based on monomer) of the  $\text{CoCl}_2$ -catalyst. Microstructure

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ACCESSION NR: AP4030787

was determined quantitatively from IR spectra at 912 and 966  $\text{cm}^{-1}$ . Introduction of dialkylsulfides into the polymerization system changes the structure of the polybutadiene: the 1,4-cis units decrease as the 1,2-units increase, while the amount of 1,4-trans linkages remains constant. Simple ethers and tertiary amines have a similar effect on the microstructure of the polybutadiene. All these additives in even small amounts (above 0.1 mol/mol of diisobutylaluminum chloride) rapidly decrease the rate of polymerization. The electron donors lower the molecular weight of the polymers. Thus, there is agreement between the change in the chain microstructure and the molecular weight of the polymer. Orig. art. has: 2 figures.

ASSOCIATION: None

SUBMITTED: 19Nov63

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: 00

NO REF SOV: 006

OTHER: 004

Card 2/2

TUROV, B.S.; VINOGRADOV, P.A.; DOLGOPLOSK, B.A.; KOSTINA, S.I.

Effect of electron-donor additions on the chain structure in the stereospecific polymerization of butadiene. Dokl. AN SSSR 151 no.5:1118-1119 Ag '69. (MIRA 16:9)

1. Yaroslavskiy zavod sinteticheskogo kauchuka. 2. Chlen-korrespondent AN SSSR (for Dolgoplosk).  
(Butadiene) (Polymerization) (Stereochemistry)



End

# 629